

0083-0865-2

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF: :
Masashi GOTOH, et al. : EXAMINER: CUNEO, K.
SERIAL NO.: 09/119,626 :
RCE FILED: Herewith : GROUP ART UNIT: 2841
FOR: CIRCUIT BOARD HAVING :
BONDING AREAS TO BE
JOINED WITH BUMPS BY
ULTRASONIC BONDING

PRELIMINARY AMENDMENT

ASSISTANT COMMISSIONER FOR PATENTS
WASHINGTON, D.C. 20231

SIR:

Prior to further consideration of the above-identified application, please amend the application as follows:

IN THE CLAIMS

Please cancel Claims 7, 9, and 13-15 without prejudice or disclaimer.

Please add new Claims 16-18, as follows:

16. (New) A chip part device comprising:
a circuit board having a plurality of bonding areas defined by conductive pattern; and
a chip element mounted on said circuit board, and having a plurality of bump
electrodes which are joined with said bonding areas by ultrasonic bonding,
wherein said circuit board includes at least two grooves defined by said conductive
pattern, and located approximate to one of said bonding areas to put the bonding area
therebetween.

17. (New) A chip part device as claimed in claim 16, wherein said groove is formed extending in a direction traversing an ultrasonically vibrating direction of the ultrasonic bonding.

② 18. (New) A chip part device as claimed in claim 16, wherein said at least two grooves is provided in said conductive layer as at least one of an isolated notch part and a recess located proximate to and not extending within said one of said bonding areas, wherein said notch part or recess partially narrows said conductive pattern to form a narrow pattern part.

REMARKS

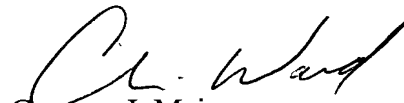
Favorable reconsideration of this application as presently amended is respectfully requested.

Claims 16-18 are presently active in this case, Claims 7, 9, and 13-15 having been canceled and Claims 16-18 having been added by way of the present amendment.

It is respectfully submitted that the present application is in condition for formal allowance and an early and favorable reconsideration of this application is therefore requested.

Respectfully submitted,

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